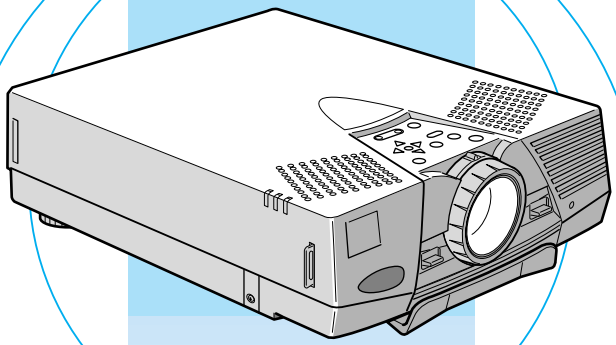
EPSON®

Owner's Manual



EMP-7500/5500™

MULTIMEDIA PROJECTOR

EMP-7500/5500

Important Information About Your EMP-7500/5500

Please read the following important information about your EMP-7500/5500 projector.

Important Safety Information

Warning: *Never look into the projector lens when the lamp is switched on as the bright light can damage your eyes. Never let children look into the lens when it is on.*

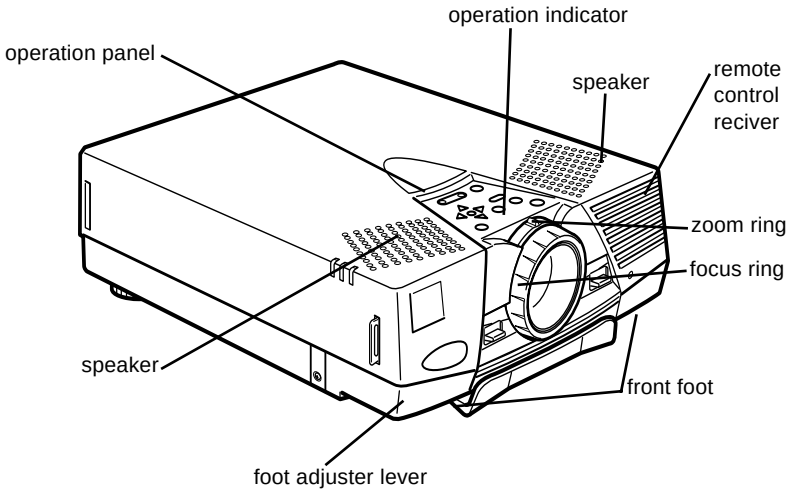
Warning: *Never open any covers on the projector except the lamp and filter covers. Dangerous electrical voltages inside the projector can cause severe injury. Except as specifically directed in this Owner's Manual, do not attempt to service this product yourself. Refer all servicing to qualified service personnel.*

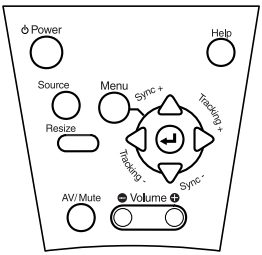
Warning: *Keep the plastic bags for the projector, accessories and optional parts out of the reach of children. Children covering their heads with bags may result in death by suffocation. Be particularly careful around small children.*

Caution: *When you replace the lamp, never touch the new bulb with your bare hands. The invisible residue left by the oil on your hands may be shorten the bulb life. Use a cloth or gloves to handle the new bulb.*

EMP-7500/5500

QUICK START



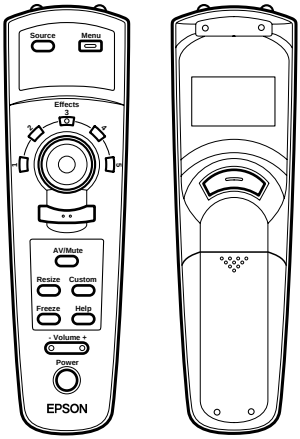


Operation Panel

Button	Function
Power	Starts or stops projection.
Source	Switches the input source to Computer or Video.
Menu	Displays or hides the menu.
Up, down arrows (Sync+/Sync-)	Synchronizes the computer's graphic signal. Use these buttons to adjust an overall image that is fuzzy or streaked, or to select menu items during menu operations.
Left, right arrows(tracking-/ tracking+)	Matches the projector's internal clock to various computer graphic signals (tracking adjustment). Use these buttons to adjust an image with vertical fuzzy lines, or to change numeric settings during menu operations.
Enter key	Registers a menu selection.
Resize	Switches between Resizing screen and Window screen (PC input).
AV/Mute	Cuts off the screen and sound temporarily.
– Volume +	Adjusts the volume.
Help	Displays the help menu in various cases may occur.

EMP-7500/5500

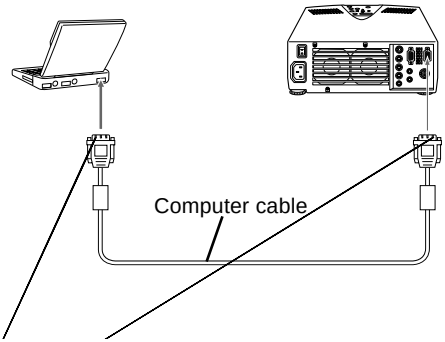
QUICK START



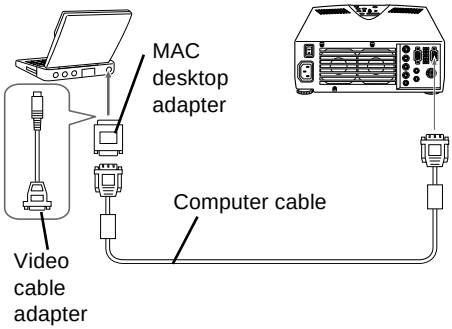
Remote control

Button	Function
Menu	Displays or hides the menu.
Source	Switches the input source to Computer or Video.
Effects buttons	Use to display special effects 1 Pointer, 2 Box, 3 Line, 4 Maker, 5 Clear.
Top multi-purpose button	Acts as a right mouse click, registers a menu selection, and selects other custom functions.
Bottom multi-purpose button	Acts as a left mouse click, registers a menu selection, and selects other custom functions.
Help	Displays the help menu in various cases may occur.
Resize	Switches between Resizing screen and Window screen (PC input).
Custom	Zooms a image by the Mouse Right/Left buttons.
Freeze	Keeps the current computer or video image on the screen.
AV/Mute	Cuts off the screen and sound temporarily.
– Volume +	Adjusts the volume.
Power	Starts or stops the projector.

Connecting to a PC laptop computer



Connecting to a Macintosh PowerBook



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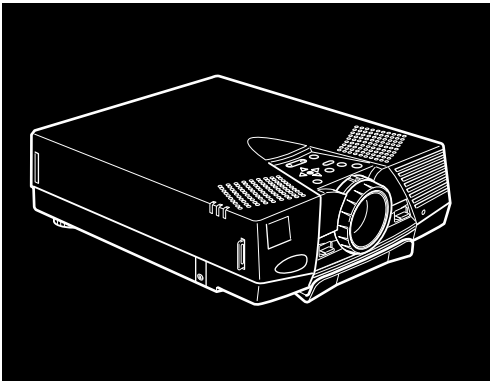

EMP-7500/5500™

DATA/VIDEO PROJECTOR

Owner's Manual

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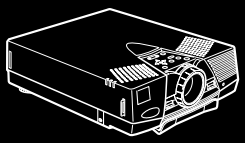

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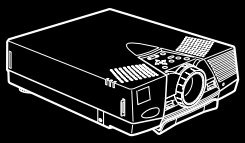


Introduction

The compact, lightweight EPSON EMP-7500/5500 Projector allows you to project XGA(EMP-7500), SVGA(EMP-5500) full-color images and video onto a large screen for presentations. The projector can connect simultaneously to two image sources: one PC or Apple® Macintosh® computer image sources plus one video source such as a video tape deck, camcorder, or digital camera. Audio can also be connected for each image source.

Images are displayed in true XGA(EMP-7500) and SVGA(EMP-5500) full color (16,670,000 colors) at a resolution of 1024 x 768(EMP-7500) and 800 x 600(EMP-5500) pixels. The projector produces bright images that can be easily seen in rooms with enough light to take notes. Audio can be produced from the projector's 1W+1W stereo, which employ a built-in SRS 3D sound® for output that is rich and powerful. An external speaker can also be connected when further amplification is required.

A totally new AVTSS™ (Automatic Video Tracking and Synchronization Sensing, patent pending) provides automatic set-up of image from a computer for quick and easy projection of beautiful images every time.

The projector can be controlled using a hand-held remote control unit, with menus being provided for image source switching and image adjustment. The remote control can also be used as a wireless mouse to control mouse operations on

the computer screen during presentations. The optional ELP LINK III™ provides a number of add-on features that are designed to make presentations more effective.

The projector also features a new patented BIS CUIT (Balanced Image Size Conversion UnIT) chip which supports XGA(EMP-7500), VGA~XGA(EMP-5500) computer output, as well as VGA and SXGA output. Whichever type of computer output is used, the result is a full-size video image of outstanding clarity.

The EMP-7500/5500 Projector supports IBM-compatible PCs and laptops, as well as Apple® Macintosh®, Power Macintosh and PowerBook computers. The video source can be NTSC, PAL or SECAM in composite video, S-Video format.

Getting the Most Out of Your Projector

The projector comes with a full set of features that allow you to control the settings for the image display, video and audio. To get the most out of your projector, read this section for a quick summary of the important features.

Remote control

The buttons on the remote control allow you to turn the projector on and off, an provide direct access to auto set-up, blank, freeze, volume, mute and image source switching. Remote control buttons can also be used for custom functions and to access the projector's menu system. The remote control can even be used instead of your computer's mouse to control your computer.

Sleep mode

The sleep mode conserves electricity by automatically turning off the lamp if the projector does not receive video input signal for specified period (default is 30 minutes). In the sleep mode, the projector remains on but the lamp is turned off, conserving electricity, cooling the projector and extending the life of the lamp.

Use the Power button to turn the projector on and off.

Control Panel

The control panel buttons on the projector duplicate the remote control buttons and let you perform additional functions, such as adjusting the tracking and sync for computer images.

Optional Accessories

To enhance your use of the projector, EPSON provides the following accessories:

• Spare lamp	ELPLP06
• Computer cable	ELPKC02
• Link set for PC	ELPSW03
• Link set for MAC	ELPSW04
• Multi View	ELPDC01
• Mac Adaptor Set	ELPAP01
• Ceiling Mount	ELPMB03
• Ceiling Plate	ELPFC01
• Flange	ELPFL01
• Pipe 370	ELPFP01
• Pipe 570	ELPFP02
• Pipe 770	ELPEP03
• Hard Travel Case	ELPKS11

About This Manual

Chapter 1, “Installation”, gives step-by-step instructions on how to set-up the projector and connect it to your computer, video source, or other external speaker or PA system. Read the installation procedures that apply to your environment.

Chapter 2, “Using the Projector”, tells you how to switch the projector on / off and control simple projector settings.

Chapter 3, “Using the Menus”, describes how to use the menus to adjust the color and image settings, change the display of the projected image and modify audio settings such as bass and treble.

Chapter 4, “Maintenance”, describes how to maintain the projector.

Chapter 5, “Troubleshooting”, tells you how to interpret the projector’s indicator lights and gives helpful information for avoiding errors, optimizing image quality and solving problems.

Chapter 6, “Technical Specifications,” lists the technical specifications for your EMP-7500 / 5500 projector.

Safety Instructions

Always follow these safety instructions when setting up and using the projector:

1. Do not place the projector on an unstable trolley, stand or table.
2. Do not use the projector near water or sources of heat.
3. Use attachments only as recommended.
4. Use the type of power source indicated on the projector. If you are not sure of the type of power available, consult your dealer or local electricity company.
5. Place the projector near a wall outlet where the plug can be easily unplugged.
6. Insert the projector's three-pin earthed plug into a properly earthed socket. If you have a two-pin socket, contact an electrician to replace it. Do not handle the plug with wet hands.
7. Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire.
   - Ensure the plug is free of dust before inserting it into a socket.
   - Ensure that the plug is inserted into the socket securely.
8. Do not overload wall sockets, extension leads or multi-way plug boards as this may cause fire or electric shock.
9. Do not place the projector where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
10. Unplug the projector from the wall socket before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.

11. Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not place the projector on a sofa, rug or other soft surface or in a built-in installation unless proper ventilation is provided.
12. Never push objects of any kind through cabinet slots. Never allow liquid of any kind to spill into the projector.
13. Except as specifically instructed in this Owner's Manual, do not attempt to service this product yourself. Opening or removing covers may expose you to dangerous voltages and other hazards. Refer all servicing to qualified service personnel.
14. Unplug the projector during thunder storms or if it is not going to be used for an extended period. Do not place the projector or remote control on top of heat-emitting equipment or heated objects such as a car, etc.
15. Do not place the projector and remote control on top of heat-producing equipment or in a heated place, such as a car.
16. In the following situations unplug the projector from the wall outlet and refer servicing to qualified service personnel:
    - If the power cable or plug becomes damaged or frayed.
    - If liquid has been spilled into it or it has been exposed to rain or water.
    - If it does not operate normally when the operating instructions are followed or if it exhibits a clear change in performance indicating the need for servicing.
    - If it has been dropped or the cabinet has been damaged.

Where to Get Help

SEIKO EPSON CORPORATION provides local customer support and service through a nationwide network of authorized EPSON dealers and Service Centres.

- Fax-on-Demand access to EPSON's technical information library
- Literature on current and new products
- The location of your nearest Authorized EPSON Reseller or Customer Care Center
- Technical information on installation, configuration, and operation of EPSON products
- Customer relations

For inquiries please contact the appropriate representative listed in the section entitled "After sales service contact addresses" at the end of this manual.

When you call for technical assistance, be ready to identify your system and its configuration.

If you need help with any software program you are using, please refer to the documentation that came with the programs for technical support.

World Wide Web site

If you are connected to the Internet and have a Web browser, you can access EPSON's World Wide Web site at http: / / www. epson. com. EPSON's home page links users to What's New, EPSON Products, EPSON Connection, Corporate Info and EPSON Contacts. Link to the EPSON Connection for the latest drivers and FAQ's (Frequently Asked Questions) and the EPSON Chart area. To get in touch with EPSON around the world, EPSON Contacts includes Contact Information for local EPSON subsidiaries.

Transporting your projecotor

The projector contains many glass parts and precision parts.

To prevent shock damages while transporting, handle as the following.

When transport to maker due to troubleshooting

- Use the original packing.
- If you don't have the original packaging use the equivalent, put cushioning around the projector.

When frequently transport for business use

- First, put the projector in a hard travel case(optional accessories : ELPKS11), then pack it in a firm box, using cushioning. Be sure to ask to the delivery company that treats a precision device.

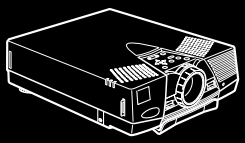
When carry by hands

- Use a hard travel case (optional accessories : ELPKS11) or a soft travel case (additional components).

When traveling by an airplane

- Be sure to bring the projector with you when traveling by an airplane.
- If transporting the projector as baggage on an aircraft, it may result in damages.

EPSON shall not be liable against any damages arose during the transportation.



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Installation

This chapter tells you how to unpack and set up your projector and connect it to other equipment. The projector must be connected to a computer or a video source such as a video tape deck, camcorder, digital camera or laser disk player. For example, you may want to connect the projector to both your computer and a video source, or set up the projector for one or more of the following:

- Connect the mouse cable to use the remote control as a wireless mouse.
- Provide audio for one or both image sources. The audio source can be the computer, video source, or another device such as a stereo.
- Connect to an external speaker or PA system to amplify the audio.

Unpacking the Projector

When you unpack the projector, make sure you have all these components:

- Projector
- Remote Control
- 2 AA batteries
- Power cord
- Computer cable
- Audio cable
- A / V cable
- Mouse cable (for PS / 2 and Mac)
- Owner's manual
- Hand strap
- Soft carrying case

All of the above items may not be required for your particular computer system.

Save all packaging materials in case you need to ship the projector in the future. It should always be transported in its original packaging or the equivalent.

Additional Items

The following items may also be required, depending upon how you plan to use the projector.

- S-Video cable for S-Video signal input
  A separate cable is required for each video source.
- Macintosh PowerBook output cable, and adapters.

This cable is normally provided with PowerBook models with video output capabilities. Contact your Macintosh dealer if you need to purchase one.

- Special connector, cable or components for connecting the mouse cable to your computer.

These items should be available from your computer dealer. Note that the mouse cable cannot be used with a computer that does not have a mouse connector.

♦ ***Note:*** *The hole on the right side of the projector accepts the connection of the Kensington MicroSaver anti-theft device, which can be purchased at your local computer dealer.*

Setting Up the Projector

1. Place the projector on a sturdy, level surface within five feet of the computer or video source.

♦ ***Caution:*** *Do not hold the projector by the lens. This can damage the lens.*

2. Place the projector the correct distance from the screen.

   The distance between the projector and the screen determines the actual image size. Use the general guidelines below to determine the correct distance.

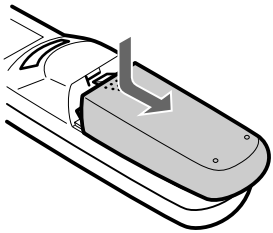
   The distance above is a standard. Adjust to the correct distance as referring to the guidelines.

Screen size	Horizontal distance from projector to screen
300 inches (610x460cm)	472.4 inches (12.0 m) ~ 614.2 inches (15.6 m)
200 inches (410x300cm)	315.0 inches (8.0 m) ~ 409.4 inches (10.4 m)
100 inches (200x150cm)	157.5 inches (4.0 m) ~ 204.7 inches (5.2 m)
80 inches (160x120cm)	126.0 inches (3.2 m) ~ 165.4 inches (4.2 m)
60 inches (120x90cm)	94.5 inches (2.4 m) ~ 122.0 inches (3.1 m)
40 inches (81x61cm)	63.0 inches (1.6 m) ~ 82.7 inches (2.1 m)
30 inches (61x46cm)	47.2 inches (1.2 m) ~ 63.0 inches (1.6 m)
25 inches (51x38cm)	39.4 inches (1.0 m) ~ 51.2 inches (1.3 m)
19 inches (39x29cm)	39.4 inches (1.0 m)

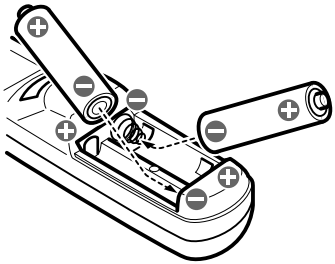
3. Turn the projector so that the lens is at right angles to the screen. If the projector is not angled correctly the screen image will be crooked.
4. Connect one end of the power cable to the projector's power connector. Connect the other end to an earthed electrical socket.
   The projector should be in sleep mode, indicated by an orange power indicator.

♦ ***Warning:*** *Never look into the lens when the projector is on. There is a risk that the projector might come on suddenly even though it is not in use. The light from the lamp can damage your eyes. It is especially important that children should not be allowed to look into the lens.*

5. To insert the batteries in the remote control device, slide off the battery compartment cover as shown below.



6. Insert the two AA batteries included with the projector. Make sure the polarity of the batteries is correct.



7. Replace the battery compartment cover.

When replacing batteries, take the following precautions:

- Do not recharge used batteries or expose batteries to fire or water.
- Replace batteries as soon as they run out. If the batteries leak, wipe away the fluid with a soft cloth. If battery fluid gets onto your hands wash them immediately.
- Remove the batteries if you will not be using the projector for a long period.

Connecting to a Computer

You can connect the projector to a computer capable of XGA, VGA, and SVGA output. Resizing is supported for VGA, XGA output. Below a list may be found of the types of computers supported by this projector.

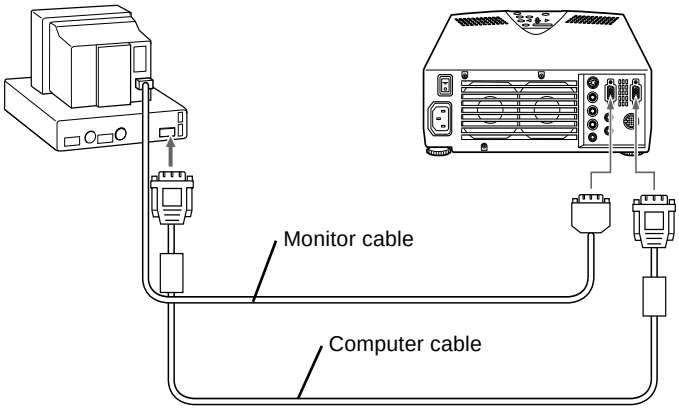
- IBM desktop PC or compatible
- IBM laptop or compatible
- Apple Macintosh desktop computer, including Macintosh Quadra®, Macintosh Centris®, and Power Macintosh
- Any Apple PowerBook with video-out capability, including all 160, 165, 180 and 500 series PowerBooks

See the section that applies to your computer.

Connecting to a PC desktop computer

Before beginning, make sure that the projector and computer are both turned off.

1. Connect the computer cable.



♦ ***Note:*** *Computer configurations vary. See your computer manual for the location of the ports needed to connect your EMP -7500/5500 projector.*

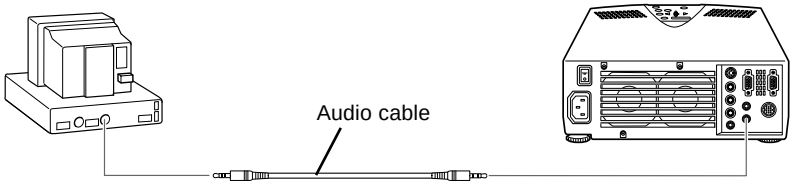
   a. Connect either end of the computer cable to the projector's Computer In port.

   b. Disconnect the monitor cable from the computer and connect the other end of the computer cable to the terminal where the monitor cable is disconnected from the computer.

c. If necessary, connect the monitor cable of the computer monitor to the projector's Computer out.

d. Tighten the screws on all connectors.

2. Connect the audio cable if needed.



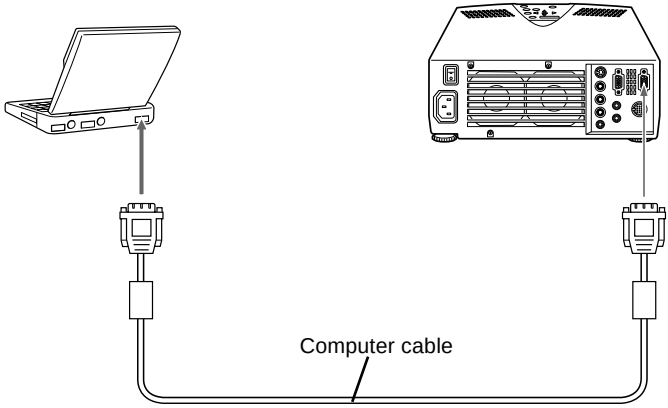
a. Connect one end of the audio cable to the Audio In jack on the projector.

b. Connect the other end of the audio cable to the audio out port on a sound card in the computer.

Connecting to a PC laptop computer

Before beginning, make sure that the projector and computer are both turned off.

1. Connect the computer cable.



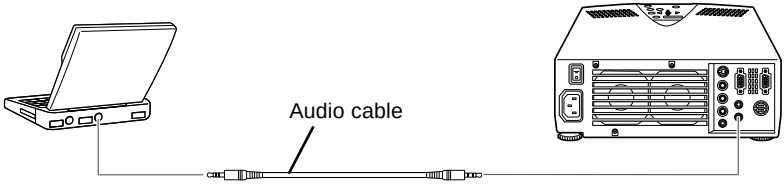
♦ ***Note:*** *Laptop configurations vary. See your computer manual for the location of the ports needed to connect your EMP-7500/ 5500 projector.*

a. Connect either end of the computer cable to the projector's Computer In port.

b. Connect the other end of the computer cable to the laptop's video (monitor) port.

c. Tighten the screws on all connectors to make sure they are fastened securely.

2. Connect the audio cable.



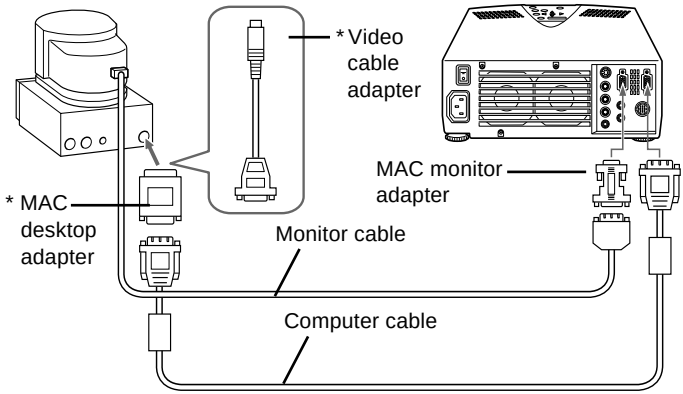
   a. Connect one end of the audio cable to the Audio In jack on the projector.

   b. Connect the other end of the audio cable to your laptop.

Connecting to a Macintosh desktop computer

Before beginning, make sure that the projector and computer are both turned off.

1. Connect the computer cables.



♦ ***Note:*** *Macintosh computer configurations vary. See your computer manual for the location of the ports needed to connect your EMP-7500/5500 projector.*

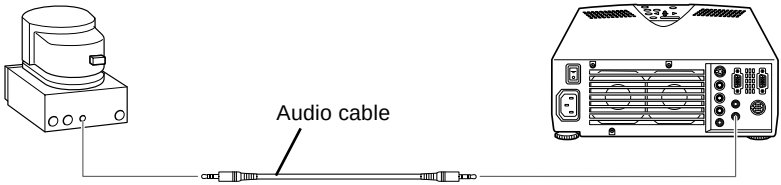
** You may need adapters that came with your computer or purchased from your computer dealer for connecting.*

a. Connect either end of the computer cable to the projector's Computer In port.

b. Connect the other end of the computer cable to the monitor or video port where monitor cable is disconnected from the computer.

c. If necessary, connect the monitor cable to the projector's Computer out.

2. Connect the audio cable.



a. Connect one end of the audio cable to the Audio In jack on the projector.

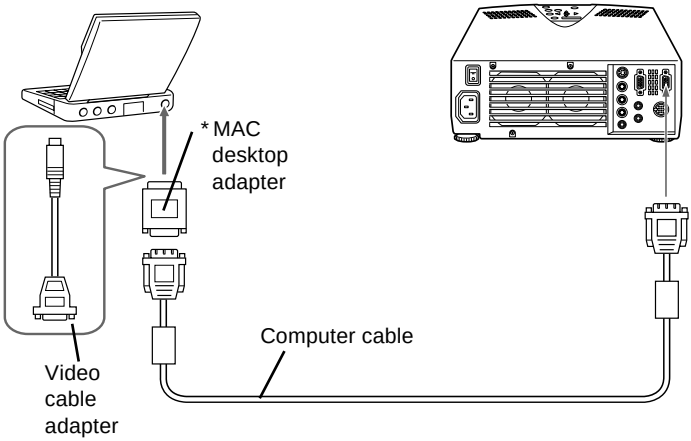
b. Connect the other end of the audio cable to your computer.

Connecting to a Macintosh PowerBook

Remember that you can only use a PowerBook model that has video-out capability. See page 7 for more information.

Before beginning, make sure that the projector and PowerBook are both turned off.

1. Connect the computer cable.



♦ ***Note:*** *PowerBook configurations vary. See your computer manual for the location of the ports needed to connect your EMP -7500/5500 projector.*

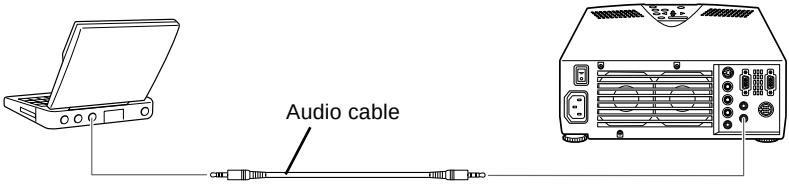
** You may need adapters that came with your computer or purchased from your computer dealer for connecting.*

a. Connect the other end of the computer cable to the projector's Computer In port.

b. Connect the other end of the computer cable to the video port (monitor output port) of your PowerBook.

c. Tighten the fixed screws on all connectors.

2. Connect the audio cable.



a. Connect one end of the audio cable to the Audio In jack on the projector.

b. Connect the other end of the audio cable to your computer.

Connecting to a Video Source

You can use this connection procedure to connect a video tape deck, a camcorder, a laser disc player or any other compatible video image source to the projector.
The projector can receive composite video or S-Video signals. If your video source has a one-pin RCA video jack you have composite video. If your video source has a four-pin video jack you have S-Video. If your video source has a three-pin video jack, you have G Sync-Video.

♦ ***Note:*** *The projector is not compatible with a cable TV-style F connector.*

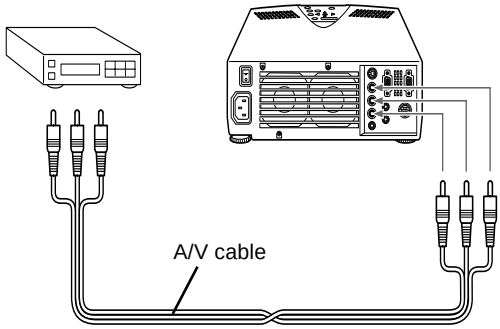
You can connect to both an S-Video and a composite video source at the same time. However, the projector automatically selects the S-Video source. To display composite video you must disconnect the S-Video source.

The projector supports NTSC, PAL and SECAM video formats. By default, it automatically detects and identifies the video format. However, you can set it to detect a single broadcast format. (See “Video menu” in Chapter 3.)
Note that the projector will then be able to detect only one type of video signal.

The type of cable you need to connect the video source to the projector depends on whether you have composite video, S-Video or G Sync-Video. For composite video, use the video / audio cable supplied with the projector. For S-Video, use the S-Video cable and audio cable supplied with your video device or obtain one from your computer dealer. For G Sync-Video, use the BNC type cable came with your video source.

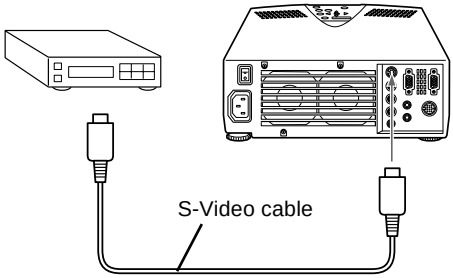
To connect a video source to the projector:

1. Switch off the projector and video source if they are on.
2. If your composite video uses an RCA-type composite video connector, you will need the audio / video cable supplied with the EMP-7500 / 5500. If your video uses a S-Video, you will need to provide YOUR OWN S-Video or use the S-Video cable that came with your video source.
3. For composite video, connect the yellow RCA plug at one end of the video / audio cable to the projector's Video jack. Connect the other yellow RCA plug to the video-out jack on the video source.



4. Connect the other plugs on the audio / visual cable to the Audio jacks of the projector: insert the white plug into the L jack and the red plug into the R jack. Connect the plug at the other end of the audio / visual cable to the audio output jacks of the video source.

5. For S-Video, insert one end of the S-Video cable into the projector's S-Video jack. Insert the other end in the S-Video Out jack on your S-Video source.



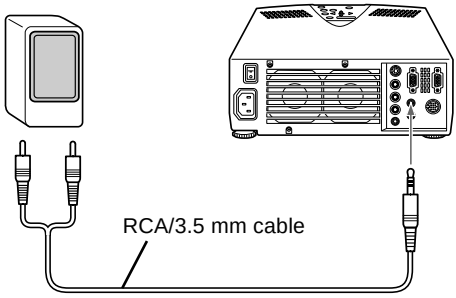
Connecting to an External Speaker or PA System

Though the projector's internal speakers are enough for most small-size or medium-size rooms, an external speaker can be connected to achieve the best results for large room presentations.

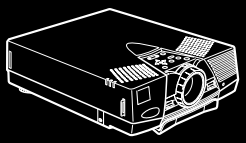
A commercially available RCA-to-3.5 mm stereo mini audio cable or 3.5 mm stereo mini audio cable is required to connect the projector's 3.5 mm stereo mini jack to an external speaker or a PA system. These items can be obtained from your computer dealer.

1. Check to ensure that both the projector and all sources are turned off.

2. Connect the cable's 3.5 mm stereo mini-plug to the projector's Audio Out jack.



3. Connect the other end of the cable to the external speaker or PA system.Ensure you to connect the red RCA plug to the right channel and the white RCA plug to the left channel.



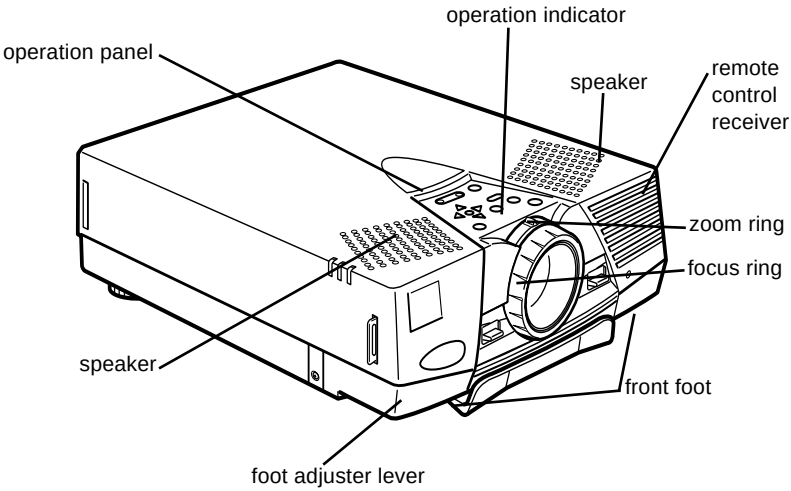
2

Using the Projector

This chapter provides the following information about using your projector:

- Turning equipment on and off
- Adjusting the screen image
- Controlling the projector
- Checking the status of the projector

The illustration below identifies the parts of your projector.



Turning the Equipment On and Off

Always turn on the projector and its attached equipment in the following order.

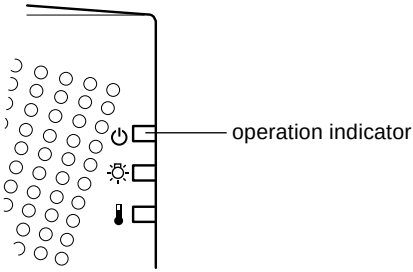
1. Projector
2. Computer
3. Video source
4. Audio source

Turning the Projector On and Off

1. Connect the power cord to the projector.
2. Insert the power plug into a wall outlet.
3. Remove the projector lens cap.
4. Turn on the power switch on the back of the projector.
5. Press the power button on the remote control or control panel. The green operation indicator starts flashing for 30 seconds, and when the green flashing stops, the projecting image gets full illumination.

♦ ***Warning:*** *Never look into the lens when the lamp is on. This can damage your eyes. It is especially important that children are not allowed to look into the lens.*

Reverse the order shown above to turn off the projector and other equipment. After you press the Power button to turn off the projector, the fan will remain on and the operation indicator will flash orange for about 2 minute as the projector cools.



The indicator stops blinking (and remains lit in orange) when the cooling operation is complete.

♦ ***Note:*** *The projector is designed so that it cannot be turned back on while the operation indicator is flashing orange. Before pressing the Power button again, wait until the lamp has cooled and the operation indicator is orange.*

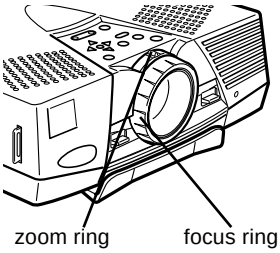
Sleep Mode

Sleep mode conserves electricity by automatically turning off the lamp after the projector has not been used for 30 minutes. In sleep mode, the projector's operation indicator is orange and only a minimum amount of the projector's circuitry remains on. This conserves electricity, cools the projector, and extends the life of the lamp. When the projector is in sleep mode, you can press the Power button to start projecting images, or you can unplug the projector's power cord.

♦ ***Note:*** *When you don't use the projector, turn off the power switch on the projector. The orange operation indicator turns off.*

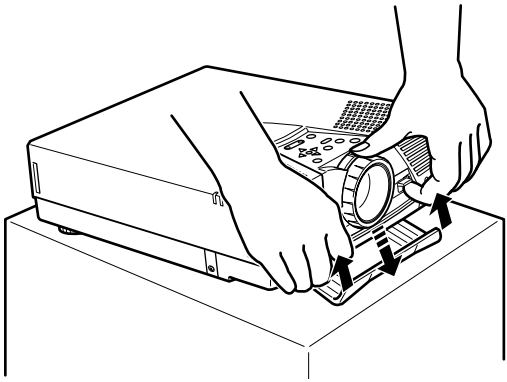
Focusing and Positioning the Screen Image

After an image appears on the screen, check to see if it is in focus and whether it fits properly on the screen.



- To adjust the focus of the image, rotate the focus ring, which is the outer ring on the projector's lens.
- To adjust the size of the image, rotate the inner zoom ring. Rotate the zoom ring wide to make the image larger, and tele to make it smaller.

If you need to raise or lower the image on the screen, extend or retract the two feet at the bottom of the projector as follows.



1. Stand behind the projector and support the front of it while you lift the foot adjuster lever located above the feet. This unlocks the feet so they can move up and down freely. Do not let the projector drop.

♦ ***Caution:*** *Do not hold the projector by the lens as you may damage it.*

2. While lifting the foot adjuster lever, raise or lower the projector until the screen image is positioned correctly.
3. Release the lever to lock the feet in their new position.
4. To fine-tune the height of the projector, turn the rear feet clockwise to raise the height or anti-clockwise to lower it.

Resize Button

The Resize button allows you to switch between Resize display and Window display.

The Resize button cannot be used with XGA(1024 x 768 pixels) for EMP-7500 and SVGA(800 x 600 pixels) for EMP-5500.

How to switch

With images up to XGA(1024 x 768 pixels) size (for example a 600 x 480 pixels VGA image), press the Resize button alternately. The Resize display changes the VGA(600 x 480) image into the SVGA(800 x 600) image. The Window display projects the VGA(600 x 480) image as it is. The projected image gets smaller than SVGA(800 x 600) image.

With images SVGA(800 x 600 pixels) size, the image is displayed with the maximum size in both Resize and Window display. Pressing the Resize button does not make any change.

With images larger than SVGA(800 x 600 pixels) size (for example a 1024 x 768 pixels XGA image), you can either select to display a portion of the projected image (Window display) or the entire projected image (Resize display).

Each time you press the Resize button, the projected image is displayed in the following order.

1. The XGA image is reduced to the SVGA size.
2. The projected image is displayed with XGA size, and only the upper of the right image is projected on the screen..
3. The upper of the left image is projected on the screen.
4. The bottom of the right image is projected on the screen.
5. The bottom of the left image is projected on the screen.
6. The center of the image is projected on the screen.

After the step 6, press the Resize button again to return to the step 1.

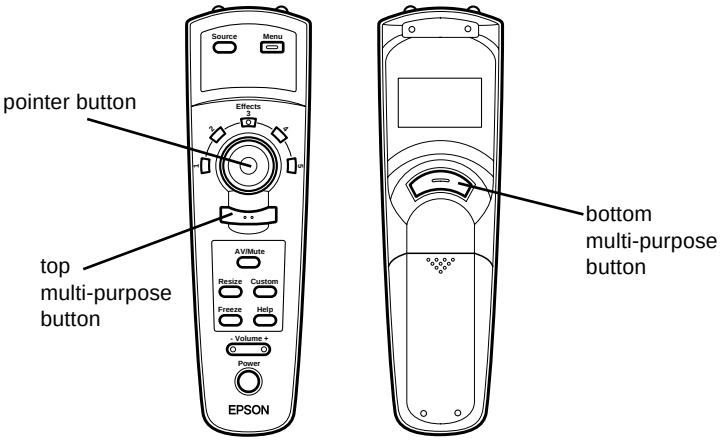
Controlling the Projector

Normally you control the projector using the remote control.

The buttons on the remote control allow you to do the following.

- Switch power on and off.
- Switch between input images. (video - computer)
- Access menu for adjustment of image, audio, video, and display settings.
- Control resizing.
- Control display freeze.
- Control A / V mute.(Cuts off the image and sound temporarily.)
- Adjus audio output.
- Control custom function. (E zoom)
- Control effect functions. (Decorates the projected images on the screen.)

Using the Remote Control



Remote control

When using the remote control, always point it towards the remote control receivers located at the front and at the back of the projector.

To be able to use the remote control as a cordless mouse connect the projector to your computer with the mouse cable (for PS/2) came with the projector.

To use the remote control, always point it towards the remote control receivers located at the front of the projector.

You can use the remote control up to 10 metres (33 feet) from the projector.

♦ ***Note:*** *The projector may not respond to remote control commands in these conditions: ambient light is too bright; a certain type of fluorescent light is present; a strong light source (such as direct sunlight) shines into the infrared receiver; or other equipment emitting infrared energy is present (such as a radiant room heater). Remove these conditions to use the remote control or control the projector from a computer.*

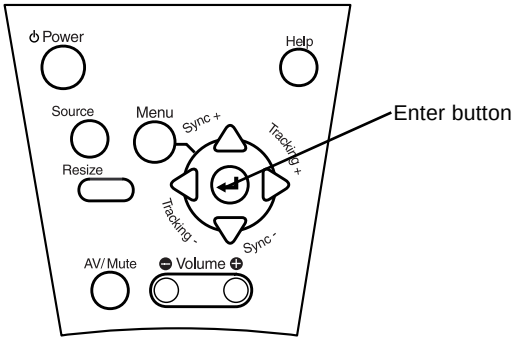
♦ ***Note:*** *If you use the other mouse except the PS/2 mouse, you need to purchase the Link Set to connect.*

In addition to the remote control, you can also control the projector by using the buttons on the projector's operation panel located on top of the projector.

This table summarizes the functions on the remote control.

Button	Function
Menu	Displays or hides the menu.
Source	Switches the input source to Conmputer or Video.
Effects buttons	Use to display special effects 1 Pointer, 2 Box, 3 Line, 4 Maker, 5 Clear.
Top multi-purpose button	Acts as a right mouse click, registers a menu selection, and selects other custom functions.
Bottom multi-purpose button	Acts as a left mouse click, registers a menu selection, and selects other custom functions.
Help	Displays the help menu in various cases may occur.
Resize	Switches between Resizing screen and Window screen (PC input).
Custom	Zooms a image by the Mouse Right/Left buttons.
Freeze	Keeps the current computer or video image on the screen.
AV/Mute	Cuts off the screen and sound temporarily.
– Volume +	Adjusts the volume.
Power	Starts or stops the projector.

Using the Control Panel



Operation Panel

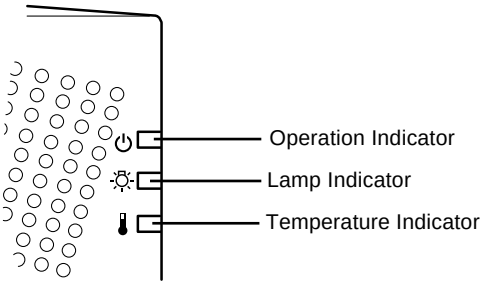
You can use the control panel to control the projector instead of the remote control. However, you can program and access the custom features only when you are using the remote control.

The following table summarizes the functions on the control panel.

Button	Function
Power	Starts or stops projection.
Source	Switches the input source to Conmputer or Video.
Menu	Displays or hides the menu.
Up, down arrows (Sync+/Sync-)	Synchronizes the computer's graphic signal. Use these buttons to adjust an overall image that is fuzzy or streaked, or to select menu items during menu operations.
Left, right arrows(tracking-/ tracking+)	Matches the projector's internal clock to various computer graphic signals (tracking adjustment). Use these buttons to adjust an image with vertical fuzzy lines, or to change numeric settings during menu operations.
Enter key	Registers a menu selection.
Resize	Switches between Resizing screen and Window screen (PC input).
A/V Mute	Cuts off the screen and sound temporarily.
– Volume +	Adjusts the volume.
Help	Displays the help menu in various cases may occur.

Projector Status Indicators

The power and lamp indicators at the top of the projector tell you the projector's operating status.



♦ ***Caution:*** *A red indicator warns you if a serious problem occurs. See Chapter 6, "Troubleshooting," for what to do if a warning light comes on.*

Operation Indicator

Displays machine condition.

Color	Status	Meaning
Orange	Lit	Sleep mode.
Green	Flashing	Projection lamp is warming up for 30 sec.. After that, the indicator will turn to lit to start projecting.
Green	Lit (every 1 sec)	The projector is projecting and providing the maximum of brightness.
	Lit (every 2 sec)	The computer is in the suspended mode. When the suspended mode is released, the projector starts projecting.
Orange	Flashing	Projection lamp is off, the projector is cooling down for 2 minute. While cooling, operations can not work.
Red	Flashing	The projector has internal projector problem and turned off.

Lamp Indicator

Displays lamp condition.

This indicator is off when the projector is in a normal condition.

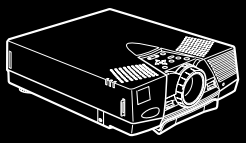
Color	Status	Meaning
-	Off	The projector is in a normal condition.
Orange	Flashing	Projection lamp is reaching the end of its life and should be replaced with a new one.
Red	Lit	Projection lamp has reached the end of its life and will not longer project images. Replace the projection lamp with a new one.
Red	Flashing	The projector has lamp or other problems around the lamp. Contact your nearest service provider.

Temperature Indicator

Displays the internal temperature condition.

This indicator is off when the projector is in a normal condition.

Color	Status	Meaning
-	Off	The projector is in a normal condition.
Orange	Flashing	The projector is in a hot condition.
Red	Lit	The projector is too hot and turned off.
Red	Flashing	The projector has a cooling fan or temperature sensor problem. Contact your nearest service provider.



3

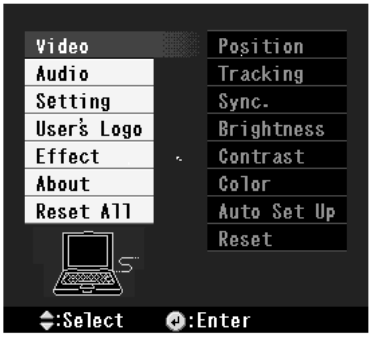
Using the Projector Menus

- The seven projector menus enable you to control your projector.
- The Computer menu controls the computer image, such as brightness and contrast, when the computer is the image source.
- The Video menu controls the video image, such as brightness and color saturation, when the image source is video, such as a VCR.
- The Audio menu controls audio features, such as the volume level, tone setting, and SRS® sound.
- The Setting menu enables you to set various projector options.
- The User's logo menu allows you to select special features such as zoom, backcolor or logo.
- The Effect menu allows you to use effect buttons.
- The About Menu displays lamp hours, frequency and etc..
- The Reset All menu returns all settings to their factory defaults.

Accessing the Main Menu

The projector menus can be accessed using either the projector control panel or remote control.

To display the Main menu, press the Menu button. The Main menu appears:



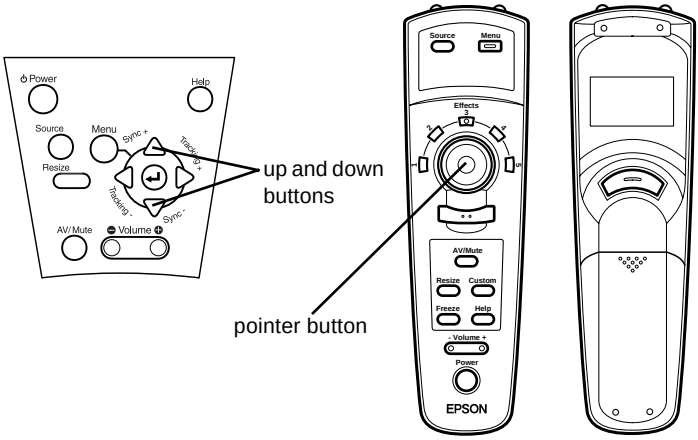
Press the Menu button again to hide the menu.

Changing a Menu Setting

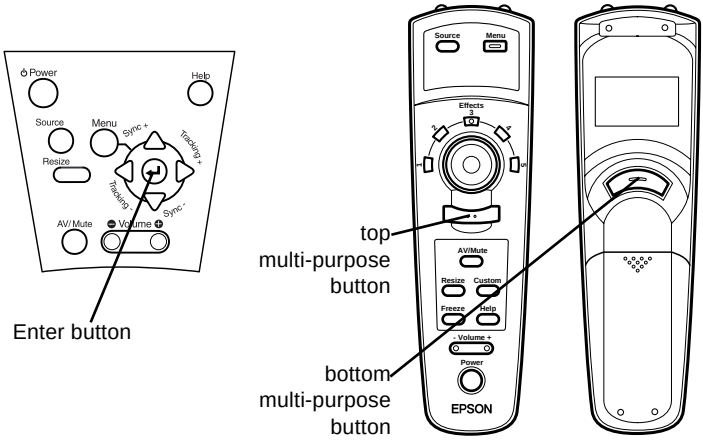
To change a menu setting:

1. Press the Menu button on the control panel or remote control to display the Main menu.

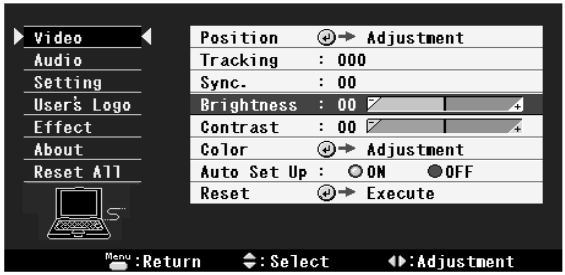
2. Press the up or down arrows (control panel) or press the top or bottom of the pointer button (remote) to scroll through the menu choices.



3. Press either the Enter button (control panel) or the top or bottom multi-purpose button (remote) to display a submenu.



A sub-menu such as the following appears.



♦ ***Note:*** *Sub-menus differ, depending on if the current image source is Computer or Video.*

4. Press the up or down arrows (control panel) or the top or bottom of the pointer button (remote) to scroll through the menu choices.
5. Press either the left or right arrow buttons (control panel) or the right or left sides of the pointer button (remote) to change the setting.
6. When you are finished changing settings, press the Menu button to go back to the Main menu. The changes are saved automatically.

Menu Options

The following menus are described in this section:

- Video menu (Image source = Computer)
- Video menu (Image source = Video)
- Audio menu
- Setting menu
- User's Logo menu
- Effect menu
- About menu
- Reset All menu

Video Menu (Image source = Computer)

The Video menu enables you to make adjustments to the projected image. The following options are available when the image source is Computer.

♦ ***Note:*** *The computer must be connected and operating, and the image source on the projector must be set to Computer for you to access these menu options.*

Menu item	Description
Position	Select this item and then press either multi-purpose button(remote) or the <Enter> button(control panel) to enter the screen position adjustment mode. While in the screen position adjustment mode, use the pointing button or the <Up>, <Down>, <Left> and <Right> buttons to move the screen position in the corresponding direction. After you are finished, press the <Menu> button to return to the Computer Menu.
Tracking	Matches the projector's internal clock to various computer graphic signals. Adjust this setting to remove vertical fuzzy lines from the image.
Sync	Synchronizes with the tracking signal sent from the computer. Adjust this setting whenever the overall image is fuzzy or to remove streaks from the image.
Brightness	Lightens or darkens the overall image. Increase brightness to make the image lighter, or decrease it to make the image darker.
Contrast	Adjusts the relative difference between light and dark areas. Increase contrast to make light areas lighter and dark areas darker, or decrease it to lessen the difference between the light areas and dark areas of the image.
Color	Adjusts the color balance of the input source. Select this item and then press either multi-purpose button(remote) or the <Enter> button (control panel) to enter the color adjustment mode. While in the color adjustment mode, use the pointing button or the <Up> and <Down> button to select a color. Next, use the pointing button or <Left> and <Right> buttons to adjust the selected color. Increasing a color's setting makes that color more intense on the screen, while a lower setting makes the color less intense. After you are finished, press the <Menu> button to return to the Computer Menu.

Menu item	Description
Auto Set Up	Pressing AUTO automatically adjusts the computer input signal to the current projector settings. Press the AUTO button while the image fills the entire screen of your computer, like a Windows screen. Certain computer input signals may not be totally compatible with AUTO button settings. In such cases, use the menus to make additional adjustments.
Reset	Returns all Computer Menu items to their factory defaults. Select this item , then press either multi-purpose button(remote) or the <Enter> button(control panel) to display the confirmation screen. Next, select Yes and press a multi-purpose button(remote) or the <Enter> button (control panel) to reset the Computer Menu items. If you change your mind, select No and press either multi-purpose button(remote) or the <Enter> button (control panel) to clear the confirmation screen without changing any settings.

Video Menu (Image source = Video)

The Video menu enables you to make adjustments to the projected image. The following options are available when the image source is Video.

♦ ***Note:*** *The video source (such as a VCR or camcorder) must be connected and operating, and the image source on the projector must be set to Video for you to access these menu options.*

Menu item	Description
Brightness	Lightens or darkens the overall image. Increase brightness to make the image lighter, or decrease it to make the image darker.
Contrast	Adjusts the relative difference between light and dark areas. Increase contrast to make light areas lighter and dark areas darker, or decrease it to lessen the difference between the light areas and dark areas of the image.
Color	Adjusts color density. Increase color density to make colors darker and more opaque, or decrease it to make colors lighter and less opaque.
Tint (NTSC only)	Adjust the red-green balance of the screen. Increase tint to add more green, or decrease it to add more red.
Sharpness	Adjusts screen sharpness. Increase sharpness to make screen images more sharp, or decrease it to make the images less sharp.
Reset	Returns all Video Menu items to their factory defaults. Select this item and then press either multi-purpose button(remote) or the <Enter> button(control panel) to display the confirmation screen. Next, select Yes and then press a multi-purpose button(remote) or the <Enter> button(control panel) to reset the Video Menu items. If you change your mind, select No and then press either multi-purpose button(remote) or the <Enter> button(control panel) to clear the confirmation screen without changing any settings.

Audio Menu

The Audio menu enables you to make adjustments related to audio.

Menu item	Description
Volume	Adjusts the volume level for the speakers and audio-out terminal. Increase the audio volume to raise the volume, or decrease it to lower the volume.
Treble	Adjusts the treble tone.
Bass	Adjusts the bass tone.
SRS SPACE	Adjusts sound effects. Increasing number, the sound effects gets enhanced.
SRS CENTER	Increasing number, the sound effects gets deeper.
Reset	Returns all Audio menu items to their initial factory defaults. Select this item and then press the <Enter> button (control panel) or either multi-purpose button (remote) to display the confirmation screen. Next, select Yes and then press the <Enter> button (control panel) or a multi-purpose button (remote) to reset the Audio menu. If you change your mind, select No and then press a multi- purpose button (remote) or the <Enter> button (control panel) to clear the confirmation screen without changing any settings.

Setting Menu

The Setting menu enables you to adjust basic settings that normally do not need changing.

Menu item	Description
Prompt	Temporarily displays a prompt on the projector screen to identify which source (computer or video) is providing the image.
Color Temp.	Adjusts the whiteness of the screen. Decreasing the setting provides warm white, and increasing the setting provides cold white. Use the pointing button(remote) or the <Left> and <Right> buttons(control panel) to change the value. Press the <Menu> button to clear the setting screen and return to the Main Menu.
Ceiling	Mirrors the projected images vertically (top-bottom) and horizontally (left-right). Selecting ON turns mirroring on, while OFF turns it off (for a normal image). Turn this option on when hanging the projector upside-down from the ceiling.
Rear Proj.	Mirrors the projected images horizontally (left-right). Selecting ON turns mirroring on, while OFF turns it off (for a normal image). Turn this option on when projecting from behind onto a transparent screen being viewed from the opposite side.
Blank (AV/ Mute)	Selects what should be projected when the projector's Blank button is pressed to blank the screen. You can select either a black screen, a blue screen or a user logo. A user logo can be created using the optional ELP Link III software.
Video Signal	Specifies input image signal mode. Press either multi-purpose button(remote) or the <Enter> button (control panel) to display the video signal system window. User can select from AUTO, NTSC, NTSC 4.43, PAL, PALN, PALM, PAL60 and SECAM.

Menu item	Description
Language	To display the language selection window, press either multi-purpose button(remote) or the <Enter> button(control panel). Selects the menu language in the sequence: Japanese, English, French, German, Italian, Spanish and Portuguese.
Reset	Returns all Option Menu items to their factory defaults. Select this item and then press either multi-purpose button(remote) or the <Enter> button(control panel) to display the confirmation screen. Next, select Yes and then press a multi-purpose button(remote) or the <Enter> button(control panel) to reset the Option Menu items. If you change your mind, select No and then press either multi-purpose button(remote) or the <Enter> button(control panel) to clear the confirmation screen without changing any settings.

User's Logo Menu

The user's logo menu allows you to set logos on the screen.

How to set the user's logo

1. Press the <Menu> button to open the Menu window.
2. Select the User's logo by pressing the <Sync + / -> buttons on the control panel or the Pointer button on the remote control. Then press the <Enter> button(control panel) or either multi-purpose button(remote) to display the User's Logo Setting window.
3. Select Yes or No by pressing the <Tracking + / -> buttons on the control panel or Pointer button on the remote control. Then press the <Enter> button (control panel) or either multi-purpose button(remote) to determine.
4. You can select the area to display the user's logo by using the <Sync + / -> buttons. If you determined the position, press the <Enter> button (control panel) or either multi-purpose button(remote).
5. The message of "Do you use this image?" appears on the screen.
   Select Yes and press the <Enter> button (control panel) or either multi-purpose button(remote).
   *If you want to change the position, select No.
6. Next, the Backcolor and Zoom rate setting window appears on the screen.
7. You can select them by using the <Sync + / -> buttons. Press the <Enter> button (control panel) or either multi-purpose button(remote) to determine.
8. Then the message of "Do you save the user logo ?" appears on the screen.
   Select Yes.

*If you don't want to save the logo, select No. The logo you made will be canceled. Instead of that, the previous logo you have made will be available.

9. Then press the <Enter> button (control panel) or either multi-purpose button(remote).
   *Saving the logo takes a moment. Do not use the projector or other sources (computer, video, speaker etc.) connected to the projector during the saving. It may cause damages.
10. When the message of "Saving the user logo is completed" appears on the screen, press the <Enter> button (control panel) or either multi-purpose button(remote) to go back to the Main menu.

Effect Menu

The Effect menu allows you to select detailed settings for the effect buttons on the remote control. Also, you can change the cursor speed. Select the item you want to set, then press either multi-purpose button(remote) or the <Enter> button(control panel) to display the detailed setting window. Press the <Menu> button after you completed the setting.

Menu item	Description
Pointer	This is assigned on the effect button 1. You can set the pointer function.
Box	This is assigned on the effect button 2. You can set the square function.
Line	This is assigned on the effect button 3. You can set the line function.
Marker	This is assigned on the effect button 4. You can set the marker function.
Clear	This is assigned on the effect button 5. You can cancel all effect functions previously executed.
Cursor Speed (LMH)	You can choose the cursor speed from Low, Middle and High.
Reset	Returns all effect functions to their factory defaults.

About Menu

The About menu displays the following information about your projector. Press either multi-purpose button(remote) or the <Enter> button (control panel) to display the information.

- Image source is computer.

Frequency	Displays H/V frequency of the current computer.
Resolution	Displays Resolution of the current computer.
Refresh Rate	Displays Refresh Rate of the current computer.
Lamp	Displays the number of hours the current projector lamp has been used. The color of this display turns red when the projector lamp is near the end of its normal life. When this happens, replace the projector lamp with a new one as soon as possible.

- Image source is video.

Video Signal	Displays the current video signal.
Lamp	Displays the number of hours the current projector lamp has been used. The color of this display turns red when the projector lamp is near the end of its normal life. When this happens, replace the projector lamp with a new one as soon as possible.

RESET ALL Menu

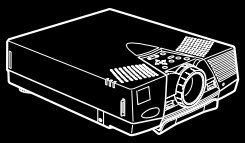
Executing this command resets the settings in all menus to their factory defaults.

While executing this command, the OSD menu disappears from a screen and "RESET ALL" will be flashing on the center of the screen.

Select this item and then press either multi-purpose button(remote) or the <Enter> button(control panel) to display the confirmation screen.

Next, select Yes and then press either multi-purpose button(remote) or the <Enter> button(cotrol panel) to reset all menu items.

If you change your mind, select No and then press either multi-purpose button(remote) or the <Enter> button(control panel) to clear the confirmation screen without changing any settings.



4

Maintenance

The projector needs little maintenance. You should keep the lens clean because any dirt or stains will appear on the screen. You will also need to clean the air filter located at the bottom of the projector periodically. It is important to keep the air filter clean because a clogged air filter prevents proper ventilation which is necessary to cool the projector and prevent it from overheating.

The only parts you should replace yourself are the lamp and the air filter. If any other parts need replacing, contact your EMP-7500 / 5500 dealer or qualified service personnel.

When cleaning any part of the projector, always switch off and unplug the projector first.

- ***Warning:*** *Never open any of the covers on the projector except the lamp and filter covers. Dangerous electrical voltages inside the projector can cause severe injury. Except as specifically indicated in this Owner's Manual, do not attempt to service this product yourself. Refer all servicing to qualified service personnel.*

Cleaning the Lens

Clean the lens whenever you notice dirt or dust on the surface. Wipe the lens surface gently with a soft, dry, lint-free cloth.

To remove dirt or stains on the lens, moisten a soft cloth with water and a neutral detergent and gently wipe the lens surface.

Cleaning the Projector Case

To clean the projector case, first unplug the power cable. To remove dirt or dust, wipe the casing with a soft, dry, lint-free cloth. To remove stubborn dirt or stains, moisten a soft cloth with water and a neutral detergent. Then wipe the casing.

Do not use alcohol, benzene, thinners or other chemical detergents as these can cause the casing to warp.

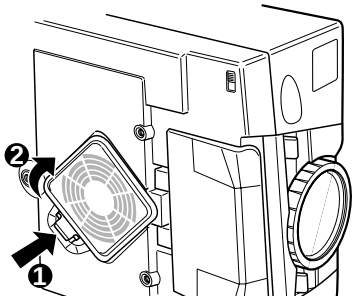
Cleaning the Air Filter

The air filter, which is located at the bottom of the projector, should be cleaned after every 100 hours of use. If it is not cleaned periodically, it can become clogged with dust and prevent the projector from being ventilated properly. This can cause overheating and damage the projector.

To clean the air filter:

1. Switch the projector off and unplug the power cable from the wall socket.
2. Stand the projector with the handle at the top so that the filter is easily accessible.

♦ ***Caution:*** *Stand the projector with the handle at the top to prevent dust from entering the projector.*



3. The air filter is attached to the inside of the projector. To clean the filter you are advised to use a small vacuum cleaner designed for computers and other office equipment.
   If the dirt is difficult to remove or if the filter is torn, replace it.
   An air filter come with replacement lamps.
   Contact your EMP-7500/5500 dealer or call an EPSON Service Centre.
   Be sure to request part number. (ELPLP06)
4. Plug the power cable back into the wall socket.

Replacing the Lamp

The projector lamp typically lasts for about 2000 hours of use. It is time to replace the lamp when:

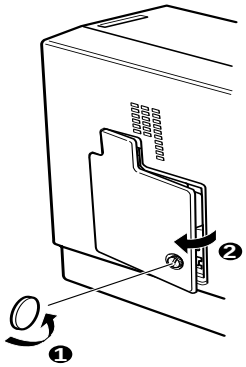
- The projected image gets darker or starts to deteriorate.
- The projection lamp indicator (orange flashing).
- The message “LAMP REPLACE” appears on the screen when the projector lamp comes on.

Contact your local EPSON dealer for a replacement lamp.Use only replacement lamp part number.(ELPLP06)

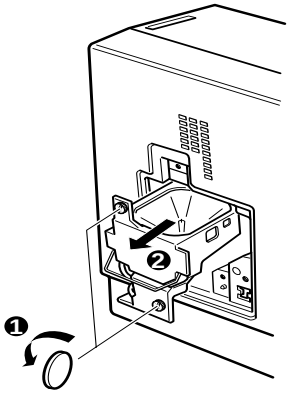
♦ ***Caution:*** *This projector lamp develops high heat and high pressure during use, so the lamp (bulb) ruptures and burns may result. To avoid serious injury, before attempting to replace the lamp, pull out the power cord plug from the outlet and wait for the lamp (bulb) to cool (wait at least one hour). Then proceed to replace lamp.*

1. Turn off the projector and unplug the power cable.
2. Turn the projector over so you can access the lamp cover.

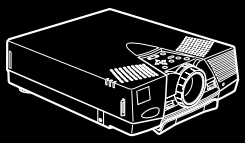
3. Use a screwdriver, coin, or similar object to loosen one retaining screw on the lamp cover. When the screw is loose, lift off the lamp cover. (You cannot remove these screws.)



4. Use a screwdriver, coin, or similar object to loosen two screws holding the lamp in position. (You cannot remove these screws.)
5. Lift up the handle and pull out the lamp.



6. Gently insert the new lamp by lowering it into position. Make sure it is inserted securely.
7. Tighten the screws you loosened in step 4.
8. Replace the lamp cover and tighten the cover screw. (Make sure the lamp cover is securely fastened. The projector turns itself off if the lamp cover is open.)



5

Troubleshooting

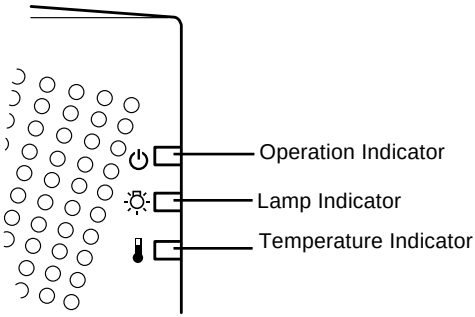
This chapter describes the problems indicated by the status lights and provides information on what to do if you experience problems with the projector. It is divided into the following sections:

- General problems with the projector. Refer to this section if the projector is not working and to find out what the warning lights are indicating.
- Problems with the screen image. Refer to this section if you cannot project an image or if the quality of the screen image is poor.

If you have a problem, refer to the appropriate section and follow all the suggestions which apply to your problem. If none of the suggested solutions solves the problem, call your EMP-7500/5500 dealer or call the EPSON Service Centre.

Problems with the Projector

If you have problems with the projector, first turn it off and unplug it. Then plug the power cord back in and turn on the projector. If this does not solve the problem, check the warning lights at the top of the projector. These lights alert you to problems with projector operation.



See the following pages for information on what to do when you see these warning lights or encounter other specific problems with the projector.

❑ The operation indicator is flashing orange and you cannot turn on the projector.

The lamp is cooling down. Wait until the light turns off and then turn on the projector.

❑ The operation indicator does not come on.

Turn off the projector, check that the power cable is connected securely both at the power outlet and the projector, and press the Power button again.

❑ Projected images get darker or start to deteriorate, or the lamp indicator is red.

Replace the projector lamp as described on page 54.

❑ The temperature indicator is red.

The projector is overheating, which turns the lamp off automatically. Let the projector cool for a few minutes, then turn it back on. Make sure nothing is blocking the ventilation vents.

The air filter may be clogged. Clean it as described in Chapter 5 and then let the projector cool for a while.

If the projector continues to overheat after you clean the air filter, the problem may be caused by damage to the cooling fan or internal circuits. Contact a qualified service person.

♦ ***Warning:*** *Except as specifically explained in this User's Guide, do not attempt to service this product yourself.*

Problems with the Image or Sound

❑ An image does not appear on the screen.

Check that the power light is on and the lens cover is off. Also make sure the cables are installed correctly, as described in Chapter 1.

The correct image source may not be selected. Press the Source button on the remote control or the control panel to choose another image source.

❑ Only part of the computer image is displayed.

If the computer's output resolution setting is higher than 1024 x 768, the projector resizes the image. If the computer output is not compatible with this resizing, choose a different display setting on the computer. In Windows 3.x, use Windows Setup in the Main program group. For a Macintosh, choose Control Panels under the Apple menu and then choose Monitors. In the Monitors screen, choose Options and make sure Macintosh Hi-Res Display or another 1024 x 768 display is selected. For supported display settings, see "Supported Monitor Displays (EMP-7500)" on page 65 or "Supported Monitor Displays (EMP-5500)" on page 66.

You also may need to modify existing presentation files if you created them for a different resolution. See your software manual for specific information.

❑ The message NO SIGNAL is displayed.

An image source not connected to the projector is selected, the signal is not being output from the computer, or the signal is not reaching the projector. Make sure the connectors are securely attached to both the projector and the image source. Then check that the image source is selected correctly. When NO SIGNAL is displayed, you cannot access the source (computer / video) menu.

❑ A blank screen is displayed.

The computer signal cannot be interpreted by the projector. Verify the display format (see page 65 or 66). When you see a blank screen, you cannot access the projector menus.

❑ The image or parts of the image are blurred or not in focus.

Adjust the Brightness and Contrast settings on the Video main menu. If you're viewing a computer image, also try adjusting the Comp Tracking and Comp Sync buttons on the projector's control panel.

There may be dirt or smears on the lens. Clean the lens as described in Chapter 4, "Maintenance."

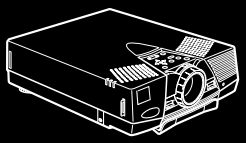
❑ The colors of the image are not right.

The color balance may be incorrect. If you're displaying a computer image, adjust the red, green, and blue settings in the Video menu. If you're displaying video, adjust the color and tint (NTSC only) settings on the Video menu.

❑ There is no sound.

First check that the volume setting is not turned all the way down and that the audio / visual cable is securely attached to both the projector and the audio source.

The wrong source is selected. Press either the Computer or Video button on the remote control or control panel to select the proper source.



6

Technical Specifications

General	
Type of display	Poly-silicon TFT
Size of liquid crystal panels	0.9 inches (22.9 mm)
Resolution	EMP-5500 : 800(h) x 600(v) pixels EMP-7500 : 1024(h) X 768(v) pixels
Screen size	19 - 230 inch (Tele angle) 25 - 300 inch (Wide angle)
Projection distance	3.28 - 53.46 feet (1.0 - 16.3 meters)
Remote control range	32.8 feet (10 meters)
Internal speaker system	1W + 1W stereo
Optical aspect ratio	4 : 3 (horizontal : vertical)
Zoom ratio	1:1.3

Projector Lamp	
Type	UHE Lamp (Ultra High Efficiency Lamp)
Power	120 W
Part number	ELPLP06

Mechanical	
Height	3.6 inches (93 mm) Maximum dimension

Mechanical	
Width	9.3 inches (238.5 mm) Maximum dimension
Depth	13.6 inches (346 mm) Maximum dimension
Weight	9.4 lb (4.2 kg)

Electrical	
Voltage	100 - 120 VAC and 200 - 240 VAC ± 10%
Rated frequency	50/60 Hz
Power supply	100 - 120 V, approximately 2.2 A 50/60 Hz 200 - 240 V, approximately 1.0 A 50/60 Hz

Environmental	
Temperature	Operation: 41 - 95˚ F (5 - 35˚ C), non-condensing Storage: 14 - 140˚ F (-10 - 60˚ C), non-condensing
Humidity	Operation: 20 - 80%, non-condensing Storage:10- 90%, non-condensing

Supported Monitor Displays (EMP-7500)

The projector displays images at a resolution of 1024 x 768 pixels. To display a higher resolution image (1280 x 1024 mode), the projector compresses the image to 1024 x 768 pixels.

The following table lists the display formats supported by the projector:

Format	Pixels	Resize display	Window display
PC98	640 x 400	960 x 600	640 x 400
EGA	640 x 350	960 x 525	640 x 350
VGA 60	640 x 480	960 x 720	640 x 480
VGACGA	640 x 400	960 x 600	640 x 400
VGAEGA	640 x 350	960 x 525	640 x 350
VGA Text	720 x 400	900 x 500	720 x 400
VGA Text	720 x 350	900 x 438	720 x 350
VESA 72/75/85	640 x 480	960 x 720	640 x 480
SVGA 56/60/72/75/85	800 x 600	1000 x 750	800 x 600
XGA 43i/60/70/75/85	1024 x 768	1024 x 768	1024 x 768
SXGA 70/75/85	1152 x 864	1008 x 756	1152 x 864
SXGA 60/75	1280 x 960	1024 x 768	1280 x 960
SXGA 43i/60/75	1280 x 1024	960 x 768	1280 x 1024
MAC 13”	640 x 480	960 x 720	640 x 480
MAC 16”	832 x 624	832 x 624	832 x 624
MAC 19”	1024 x 768	1024 x 768	1024 x 768
MAC 21”	1152 x 870	1008 x 762	1152 x 870
TV(NTSC)	640 x 480	1024 x 768	←
TV(PAL, SECAM)	768 x 576	1024 x 768	←

The frequencies of some computers may not allow the image to be displayed correctly.

Supported Monitor Displays (EMP-5500)

The projector displays images at a resolution of 800 x 600 pixels. To display a higher resolution image (1024 x 768 mode), the projector compresses the image to 800 x 600 pixels.

The following table lists the display formats supported by the projector:

Format	Pixels	Resize display	Window display
PC98	640 x 400	800 x 500	640 x 400
EGA	640 x 350	768 x 420	640 x 350
VGA 60	640 x 480	800 x 600	640 x 480
VGACGA	600 x 400	800 x 500	600 x 400
VGAEGA	640 x 350	768 x 420	640 x 350
VGA Text	720 x 400	720 x 400	720 x 400
VGA Text	720 x 350	720 x 350	720 x 350
VESA 72/75/85	640 x 480	800 x 600	640 x 480
SVGA 56/60/72/75/85	800 x 600	800 x 600	800 x 600
XGA 43i/60/70/75/85	1024 x 768	768 x 576	1024 x 768
SXGA 70/75/80	1152 x 864	768 x 576	1152 x 864
MAC 13”	640 x 480	800 x 600	640 x 480
MAC 16”	832 x 624	800 x 600	832 x 624
MAC 19”	1024 x 768	768 x 576	1024 x 768
MAC 21”	1152 x 870	768 x 580	1152 x 870
TV(NTSC)	640 x 480	800 x 600	←
TV(PAL, SECAM)	768 x 576	800 x 600	←

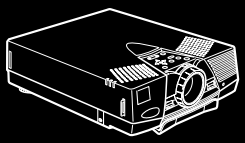
The frequencies of some computers may not allow the image to be displayed correctly.

- ***Note:*** *The frequencies of some computers may not allow the image to be displayed correctly.*
- ***Note:*** *This projector is compatible with DDC-capable graphic sub-systems and boards only.*

Monitor and Computer connector pin assignments

The Monitor and Computer connectors are female video RGB, 15-pin micro-D-style connectors. The pin assignments are:

Input pin	Signal
1	Red analogue input
2	Green analogue input
3	Blue analogue input
4	GND
5	GND
6	Red GND
7	Green GND
8	Blue GND
9	Reserved
10	Sync GND
11	GND
12	SDA (DDC)
13	Horizontal sync/composite sync input
14	Vertical sync input
15	SCL (DDC)



Glossary

Brightness. The balance of light and dark shades in an image.

Composite video. A type of video signal that encodes colours, luminance and sychronization information so it can be carried in one signal.

Contrast. A measure of the luminance differences between the highlights and shadows of an image. In a high-contrast image, light areas are very bright and dark areas are very dark.

NTSC. A 525-line video broadcast format developed by the National Television Standards Committee. NTSC is widely used in North America, Mexico and Japan.

PAL (Phase Alternation by Line). A 625-line video broadcast format used in Western Europe, India, China, Australia, New Zealand and parts of Africa.

Resolution. A measure of the amount of detail contained in an image. Resolution can be measured in dots per inch or in pixels. Image sharpness and clarity improve as resolution increases.

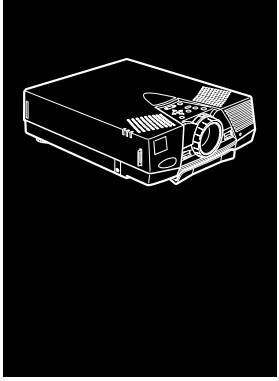
RGB. Red Green Blue

S-Video. A type of video signal which transmits luminance and colour separately.

SECAM (Système Electronique pour Couleur Avec Mémoire). A 625-line TV system used in France, Eastern Europe, Russia and parts of Africa.

Serial. A type of communication interface that transmits data over a single wire.

Sleep mode. The power cable is connected but the projector is switched off. In this mode the power LED lights up orange. If the projector is not used for 30 minutes the lamp switches itself off and after 30 seconds the projector goes into sleep mode.



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